

Title (en)  
A TRUCK MOUNTED FORKLIFT

Title (de)  
AN EINEM LASTWAGEN MONTIERTER GABELSTAPLER

Title (fr)  
CHARIOT ÉLEVATEUR À FOURCHE MONTÉ SUR CAMION

Publication  
**EP 3909908 A1 20211117 (EN)**

Application  
**EP 21170251 A 20210423**

Priority  
GB 202006034 A 20200424

Abstract (en)  
This invention relates to a truck mounted forklift (TMFL), more specifically an electrically powered TMFL. The TMFL (1) comprises a U-shaped chassis (3) having a pair of forwardly projecting side bars (5, 7) bridged by a rear cross bar (9), a pair of front wheels (25, 27), one at the forwardmost end of each of the side bars, and a rear wheel (29) located substantially centrally on the rear cross bar, a lifting assembly (15) mounted on the U-shaped chassis comprising a fork carriage (19) and a pair of forks (21, 23) mounted on the fork carriage, the lifting assembly being configured to provide adjustment to the height and the reach of the forks, a driver's station (11) mounted on the chassis and a battery pack (13) mounted on the chassis, and in which each of the front wheels is provided with a dedicated electric wheel motor assembly (31), each of the electric wheel motor assemblies comprising an interior permanent magnet (IPM) motor (33) having a drive shaft (35), a planetary gear box (37) coupled to the IPM motor, the planetary gear box being mounted axially in-line with and driven by the drive shaft (35), in which the IPM motor (33) is mounted substantially internal the side bar (5, 7) and the planetary gear box (37) is mounted substantially internal the bounds of a wheel rim (39) of the front wheel (25, 27).

IPC 8 full level  
**B66F 9/075** (2006.01)

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Citation (applicant)  
GB 1092281 A 19671122 - RANSOMES SIMS & JEFFERIES LTD

Citation (search report)  
• [A] WO 2008129447 A1 20081030 - AGGENBACHT FREDERICK CHRISTIAAN [ZA]  
• [A] US 2007251746 A1 20071101 - NOYER MICHEL [FR]  
• [A] EP 2495122 A1 20120905 - SUMITOMO HEAVY INDUSTRIES [JP]  
• [A] DE 10061221 A1 20020613 - LINDE AG [DE]  
• [A] JP H07170609 A 19950704 - TOYO UMPANKI CO LTD

Citation (third parties)  
Third party : anonymous  
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